

TECHNICAL BULLETIN
SEALANT COMPATIBILITY

DuPont™ SentryGlas® Plus

INTERLAYER

Sealant Compatibility

Many different sealants are used in the glazing industry and it is important to understand the chemical and mechanical compatibility of these sealants with the interlayer fabricated in a glass laminate. Laminates prepared with SentryGlas® Plus interlayer show excellent compatibility with different kinds of sealants used in various glazing applications.

DuPont outdoor testing of sealant compatibility

SentryGlas® Plus laminates show no edge defect formation after 42-months of natural outdoor weathering in Florida when tested with different types of sealants:

SEALANT COMPATIBILITY STUDY

C. R. Laurence 33SC	one component, acetic-cure, silicone
C. R. Laurence RTV408AL	one component, neutral-cure, RTV silicone
Dow Corning 995	one component, neutral-cure, silicone
Dow Corning 999-A	one component, acetoxy, silicone

SentryGlas® Plus laminates show no degradation from interactions with any of the sealants tested. There has been no differentiation between the silicone/SentryGlas® Plus interface and the SentryGlas® Plus/air interface. DuPont continues to conduct extensive sealant compatibility studies, and further results can be obtained by contacting your local DuPont representative.



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Independent tests

An independent study done by GE Advanced Materials has been done with SentryGlas® Plus laminates and various GE sealants. This has involved years of accelerated QUV weathering. The following sealants have been studied:

Independent Sealant Compatibility Test Results	
GE UltraGlaze® SSG4400	two component, neutral-cure, high modulus, silicone
GE UltraGlaze® SSG4000	one component, neutral-cure, high modulus, silicone
GE SilPruf NB SCS9000	one component, neutral-cure, medium modulus, silicone
GE IGS3729	one component, neutral-cure, high modulus, silicone

Laminates prepared with SentryGlas® Plus show no visible defects.

An independent study by Dow Corning reviewed these sealants using a modified ASTM C1087 compatibility test method:

Independent Sealant Compatibility Test Results	
Dow Corning® 756	one component, neutral-cure, medium modulus elastomeric silicone
Dow Corning® 790	one component, neutral-cure, ultra-low modulus silicone
Dow Corning® 791	one component, neutral-cure, architectural grade silicone
Dow Corning® 795	one component, neutral-cure, RTV silicone
Dow Corning® 983	two component, neutral-cure, RTV silicone
Dow Corning® 995	one component, neutral-cure, elastomeric silicone

The DuPont™ SentryGlas® Plus structural interlayer was determined to be approved for full contact with each of the Dow Corning sealants studied. A Dow Corning laboratory report can be obtained upon request.

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